





Feb 1st. 1894

Left home at noon and
drove to Warners Ranch.
Broke the whippletree on
the little wagon in the
afternoon, and made another
of green wood by the fire
light in the evening.
Weather fine but a little cold,
Days drive 15 miles,

2nd,

Drove to Henry Bergmanns
by 3 P. M. Camped and set
up the tent, Mr. Fenns horse
started to run away but I
made out to stop him before
he got far. Wind very cold,
Drive 20 ms.

3rd,

Had five species in my
traps this morning,

including Sitomys eremicus
and Dipodomys merriami,
and shot Spizella socialis
during the day. Tried to buy
hay but everybody in the
neighborhood was out of hay
so as I have plenty of grain
I am letting the horses get
along on a little salt grass.
Fine day and warm.

4 Feby

Remained in camp. Had
10 mammals in my traps.

5 Feby

Thur. 31° at sunrise. Warm in
the forenoon. Colder P. M. and
threatening rain. Drove over
to the edge of the San Jacinto
Valley. 21 miles.

6 Feby

Drove to Mr. Hyatt's, 10 miles.
Staid there the remainder of
the day. Passed through San
Jacinto. Rained in the night.

7 Feby.

Drove to El Basco via Beaumont, 20 miles,

8 Feby.

Drove to Herrons place, 15 m.,
Cloudy all night,

9 Feby.

Drove to Ralphs place in the
afternoon, 8 miles,

10 Feby.

Went over to Sam Bernardino
on the motor in P. M.

11 Feby.

Came back to Riverside,

12 Feby.

Drove to old Encarnacion
22 miles. Weather fine part of
the night. Bar. went to 14.25
rising to 12.00 in the morning.

13 Feb'y 1894

Drove to Monrovia, 25 miles

~~14 Drove to L~~ 14 Feb'y

Drove to Los Angeles, 22 miles,

15 Feb'y,

Spent the day in town, Met Mr.
Morcom at 1 P. M. Later he
accompanied Mr. Wright and I to
the University, where we went to
look into the museum. This seems
to consist principally of minerals.
Bar. falling, 21.0 at night.

16 Feb'y

Drove to Santa Monica cañon.
Cold morning, succeeding a rain
in the night. Good roads except
slippery from the rain. Camped
in a rather poor place, no
feed for the horses. 19

17 Feb'y

Nice warm day, not much
luck trapping.

18 Feb

Staid in camp. Fair catch,

19 Feb

Took the back track in the afternoon, Drove 16 miles and camped where the road turned off toward the Calumanga Pass,

20 Feb

Drove through Hollywood, over the Calumanga Pass (alt 750.) over part of the San Fernando Valley and turned out of it and up to Calabasas, misty toward night and the roads were very slippery at the last, Drove 30 miles

21 Feb

Left Calabasas about 9 A.M. and drove down Los Virgenes Creek seven miles and camped,

22 Feb

Strong norther in the night. Moved camp a few yards this morning to get out of the wind,

23 Feb'y
Fine day.

24 Feb'y

Drove back up the valley thru or
four miles, to the main road,
thence via Gracia Park, Triunfo
and Conchos Ranchos and Howe
Park to the mouth of an
arroyo 9 miles east (n.e.) of Huemame.
Good roads most of the day
some hills in the morning, 30 mi

25 Feb'y

Staid in camp, Light weather
in the morning.

26 Feb'y

Staid in camp, Bird baiting
vultures but none come.

27 Feb'y

Drove through Huemame
and camped on the Santa
Clara Bottom, 17 miles

28 Feb'y

Fog, Drove to Ventura, 8 mi

Found a batch of letters in P.O.,
Packed skins in afternoon,

1 Mch 94

Had poor roads in the fore-
noon, having to take to the beach
twice, when steep bluffs prevented
the road passing. This road is
only passable in low tide, there
is another one inland, but longer.
Passed through Barpunteria after
noon, Days drive 27 miles,

2 Mch,

Rain in the night. In P.M.,
passed through Santa Barbara,
Drove 8 miles,

3 Mch,

Cold head wind all day, Drove
near the beach most of the
day. Got a good camp ground
in a creek bottom, 18 miles

4 Mch,

Rather pleasant day, Road
passed near the beach to
Caviota Landing (15 mi) then

turned up Gaviota Pass, so
far the grade is easy, less than
100 feet to the mile. A range
of mountains (Santa Inez) crown
ed the beach and crossing many
arroyos coming down from the
mountains made many sharp
little hills to pull up, so the
road was not good, more
especially as the soil was
black adobe, and the ruts not
smoothed down. The arroyos
nearly all had running streams
in them. The pasture was eaten
down by sheep. Gaviota Pass.
is rather picturesque, especially
the lower part. The mountains
are composed principally of
sandstone. Drove 4 miles up the
Pass, to beyond the fork where
the Lompoc road and
telephone line turned off.
The telephone line appears to

have been the old government
telegraph line,

5 Mch, 94

Near the summit, on both sides,
was steep, though not bad.
Summit was 9500 alt. Some
two or three miles further on
we crossed another ridge,
about 8000 alt. There is a
long bridge across the Santa
Ynez River. (alt 3500) Just
before coming to the river
I saw several yellow-billed
magpies. Passed the Santa
Ynez Mission and Los
Olivos, the terminus of the
P. E. R. R. in the afternoon,
Drove 21 miles,

6 Mch,

Light rain in the night, shot
a magpie in the forenoon and
another in the afternoon. Passed
through Los Alamos, Drove
17 miles, afternoon only

7 Mch, 1894

Had sandy roads until
we crossed the Guymnas
River at noon, in P.M.
roads were black adobe, and
we passed several springbuds.
Passed through Santa Maria
in the forenoon. It is the
largest village we have
passed through this side
of Santa Barbara, 20 m,
8 Mch,

Drove through Arroyo Grande
and to the creek above Port
Harford, by 3:30 P.M., and camped
about three miles from Port
Harford, Drove 18 miles
9 Mch,

Drove through San Luis Obispo
in P.M. Drove 10 miles
10 Mch,

Drove over the Pass in
A.M., and through Santa

Margarita, in P.M. thro'
Templeton, Alt. of Pass 1550,

Days drive 25 miles,

Had high wind last night,
and slept but little, Rebel
was sick with colic tonight
when we got to camp,

11 mch.

Drove to Paso Robles, 5 m.,
and camped,

12 mch.

Did not move camp,
Poor catch, Warm Day

13 mch.

No mail yet,

14 mch.

Still at Paso Robles waiting,
In 30 traps I had one house mouse
ditomys, This is a poor trapping
ground, and a poor country

15 mch.

Started on in the morning,
Passed San Miguel, and

crossed Trancas Creek
which is a large, gravel bottom
ed stream of clear water, found
two sets of Yellow-billed
Merganser eggs, 7-5-5, 16m,
16 inch.

Followed up the San Antonio
Creek, and camped two
miles above Pleyto, Windy,
with a light shower in
P. M. Camped in a cotton-
wood grove, fair grass,
Grass has been poor most
of the way since leaving
San Luis Obispo, 14 miles,
17 inch.

Did not move camp, Clear, Windy
18 inch.

Drove through Jolon and about
three miles on up San Antonio
Creek, Days drive 18 miles
19 inch.

Concluded not to go farther

up the Creek, so turned back
to Jolon and turned up the
Kings City road. In afternoon
took a hunt, shot a Lepus
californicus and saw a
Mountain quail. 5 miles
Cold and windy.

20 Mch.

Drove through Kings City
in P. M. The pass was easy
from the southwest, but the
descent was rather steep and
long. Alt. of pass about 1500.
Cold windy day. 24 miles.

21 Mch.

Drove through Solidad, a
moderately fine day, 20 m.

22 Mch.

Drove through Gonzales
in the morning, and
then took the old stage
road, through Natividad.
Very cold morning 30°. 22 m.

23 Mch.

Drove through San Juan
Stopped several hours
at the summit of the
pass to let the horses feed
as the grass was fair for
once. Drove 12 miles
24 Mch

Drove through Gilroy.
Road was good. Saw a white-
shouldered Kite in the morning.
It looked much like a
gull as it flew along.
Shot two pigeons from a
flock feeding in a barley
field. Days drive 24 miles
25 Mch

Drove to San Jose, and camped
in vacant lots in the edge of
town. 17 miles

26 Mich

Went to Palo Alto by train
fare 55¢ each way. Looked over
the University collection of birds
and mammals. Mr. Stowell
was very kind in the matter.
Met Dr. Jordan, who gave me
a copy of his Mammal of Verte-
brates, which I needed.

27 Mich

Drove to near Mt. Eden, 24 m

28 Mich

Passed through Hayward's
in A.M. Called on Otto Emmons
Drove to Oakland P.M. and
camped in a vacant lot
between back of corner of 20th St
and Telegraph Ave, 19 m.

593 m ^{SB} _{per}

29 Mich

705

Looked up Walter Bryant

30 Mich

Went to the State University
and in P.M. Fred Rock and
I set out some traps for
Desognation

31 Mch

Had 3 Sitomys in traps this morning, but no Perognathus.
Went over to S. F. during the day and visited the Mining Bureau and Academy of Science.

1 April

Laid in camp.

2 April

Went to the Midwinter Fair,
Was somewhat disappointed
in the nature of the exhibits,
fruit and commercial displays
being the principal exhibits.
There is a great deal to see, but
a week would cover it all,
very well. The charges for
side shows and eatables &c
are reasonable. There are
many side shows, most of
them being not worth seeing.
As I expected, the first days
experience was confusing.

12 April

Started on the afternoon and drove across the upper part of San Pablo Creek, Mr. ~~Wright~~ Wright shot a wild cat from his wagon a mile or two before reaching the creek,

13 April

Drove to Martinez and about a mile west, found there was no ferry at Martinez where we had expected to cross the Straits,

14 April

Drove to Port Costa and loaded our wagons on a flat car and the horses in a box car and went over on the S. P. R. R., ferry boat Solano at a cost of \$10.90. Camped north of Yallie,

15 April

Camped a mile or two north of Yountsville,

16 April

Camped about half way between St. Helena and Calistoga, at the edge of a timbered hill not fenced in. The timber was small, but very thick and full of underbrush. It was mostly fir. Saw a few small redwoods. This whole valley is nearly all planted in wine grapes, and there are many fine winery buildings, and distilleries. The wine industry, however is in a bad way, on account of low prices.

17 April

Drove through Calistoga and up the Mt. St. Helena road over the summit a mile or so. Alt. at foot of hill 400; at summit 2180; at camp 1700. The hill is rather steep, and being lately repaired the road was bad to pull up.

20 April 1894

Started on in the morning and stopped a little further down the creek to try fishing for trout but caught none. In the afternoon we passed through Middletown.

21 April

Drove through Lower Lake and camped on Clear Lake at Boyds Landing.

24 April

Drove back to the bridge across Cache Creek.

25 April

Rain commenced at daylight so we did not move on, showing most of the day.

26 April

Considerable rain fell during the night, and most of the forenoon.

27 April,

Drove through Lower Lake, and into a valley about six miles west, where we stopped to collect a day or two

30 April

Drove through Kelseyville and Lakeport, and camped for the night in Scotts Valley.

1 May

Drove past Blue Lakes and camped on Cold Creek,

2 May

Drove to within two miles of Ukiah.

3 May

Went into Ukiah in the a.m. and wrote letters P.M.

4 May

Drove through Calpella in the forenoon and Willits in the afternoon considerably up grade,

5 May

Drove through Shunwood Valley

and up to the clinic at the
~~head~~ head of the Hoys River
and camped on the ridge.
Had up grades most of the
way except through the
valley. Camped at 2700 alt.
The last mile was through
redwoods. One tree close by
camp is 33 feet 9 inches in
circumference. Shot four
pine squirrels among us, and
several chipmunks of two
species.

12 May

Started on, - drove through
Laytonville and camped on the
hill above town.

13 May

Road was over a divide and
down Burger Creek, up over a
point, and down to Eel River
bridge. Alt. Laytonville 2200, first
divide 2300, second, or point
2450, bridge 1000, & the road
was either up or down a grade.

16 May.

Rode Rebel over to Round Valley,
The divide was about 2800 alt,
and Round Valley is about 1500.
It is a nice valley some three miles
by six. There is a high, snow-
covered range to the east, from
n.n.e. around east to s.s.w. with not
many peaks in the snow line.

18 May Turned back

Drove to Berger Creek in the
morning, and stopped at the
bridge the remainder of the
day. Caught a few trout.

19 May

Drove through Laytonville
and got the horses shod.

20 May

Rain fell in the afternoon
and we camped for 4 miles s.e.
of Shewood Valley near Hatch's
Mill. Shot a Pileated Woodpecker.

22 May

In the afternoon we drove about six miles to our old camp above Willets.

24 May

Drove to below Walker Valley

25 May

Drove to our old camp 2 miles north of Ukiah. Rain commenced falling before we got to camp and most of the remainder of the day.

27 May

Rain fell at intervals during the day.

28 May

Drove to Blue Lakes 15 m

29 May

Drove through Upper Lake and camped in Clover Valley

Days drive 12 miles

30 May 1894

Drove up Bartlett Mt.
and camped $\frac{1}{4}$ mile west of
the summit. Fine grass and
plenty of it. The grade up
this mountain is very steep.
The steepest we have encountered
on the road. In four miles
we rose from 1800 to 3600,
a heavy pull. Broke the
neck yoke on my wagon.
George concluded the grade
was too steep and helped
me considerably. Alt of
camp is about 3800, of
summit of road 3900.
Some the higher points must
be 4200 or 4300.

6 m

31 May

A little rain last night.
Shot two Log cacks today.
Heard Grouse "tutting".

2 June,

Thunder storm and rain last night, Foggy and misty all day.

3 June

Misty & rainy.

4 June

Started on at 2:30 Drove past Bartlett Springs, 8 mi

5 June

Drove through ^{little} Indian Valley and camped on the hillside a mile or so below the stage station at a wet place on the hillside, where there is a patch of grass surrounded by chaparral, and a few gray ^{leaf} pines growing here and there, 14 miles

6 June

Had a good catch of Arvicola, probably montana.

7 June

Still in same camp

8 June 94

Started on at 1 P. M. Drove
over the divide, 2,400 alt. down to
and across Bear Valley alt. 1,500
over another lower divide and
down to Truckee Creek, alt. ⁵⁰⁰ 800
and camped. Saw the Lassen
Peaks plainly, N. 20° east.
Days drive 14 miles.

9 June

Drove through Williams in
the forenoon, and Colusa in the
afternoon. Had an attack of
sciatica. 22 miles.

10 & 11 June

Laid in camp,

12 June

Drove up the Sacramento River
nearly to Butte City, and turned
east. Camped early at Butte ~~fork~~
Creek, 20 m

13 June

Drove through Biggs, 12 m.

14 June

Drove through Oroville and
7 miles beyond, Reed quite
a batch of mail at Oroville
Feather River is quite a stream
and is very muddy from
mining operations, worse than
the Colorado, 17 m

15 June

Laid in camp, wrote letters
and packed skins.

16 June

Drove through Bidwells Bar,
where we crossed Middle Feather
on a suspension bridge, alt.
of bridge about 350, From
there it is steady up hill
though the grades are not
heavy, Camped at Mountain
House. As there is no good
pasture for the teams in the basin 19 m
I am turned back this morning

17 June, 1894

Rained last night and through the day occasionally,

18 June

Fine day, Staid at Mountain House, Trapped *Cephus*, with good success,

19 June

Started on in the morning, about 3 P. M. found a little grass, where the old "Palmitto House" used to stand and camped. This is just beyond "Walkers Plain", a lava covered broken mesa, alt. 5,000. This place has a decidedly alpine look, low thick chapparral, stunted fir trees, and a small grove of twisted aspens. The snow must get very deep.

12 m

20 June

Had good success, in trapping. 12 *Sitomys*, 2 *arvicola*, 1 *Spermophilus*, 1 *Thomomys* besides a lot of chipmunks. Made a big days work. Made skins of 26 mammals

and then birds.

21 June,

First thing in the morning I saw tracks of a small band of deer where they had been pawing within 50 yards of camp. It was a bright moonlight night. In P. M. drove to Grizzly Creek. Highest place passed was 5600 just before reaching "Little Box" (the stage station). There were many deep snow banks near the road, and two or three reached into the road, though none reached across it. Two weeks earlier we would have had difficulty in getting through with the wagon. The mail transferred to sleighs until about June 1st, or later. Snow evidently gets very deep here.

Ym

22 June

Drove past Bucks Ranch to near the upper end of the valley. This is the best pasture I found since leaving Croville.

5m

25 June 1899

Started on at 7-15, after two or three miles up grade, not steep, to about alt. 5500, we commenced going down for a number of miles, Passed through Driney in P. M. and drove out a couple of miles to camp and wait for mail, Poor camp ground, very little grass, Driney is in American Valley, alt about 3400, The valley is surrounded by mountains carrying snow in many places, 16 miles.

26 June

Drove back through Driney but did not get the mail I wanted, so ordered it forwarded to Susanville and drove on about three miles and camped, 5 mi

27 June

Drove to the lower end of

Indian Valley, Road was down Spanish Creek and up Indian Creek, The alt of the bridge on Indian Creek, above its junction with Spanish Creek is 2900 ft, the lowest we have been for some time, or are likely to be for the next two months,

The road is a good grade along the cañon side, in some places the slope of the cañon side is very steep, Indian Valley looks wet and cold, Its alt is about 3200, 12 miles

28 June

Drove through Crescent Mills and Greenville, two mining camps, - the latter is about as big as Quincy, i. e. perhaps 150 inhabitants, Got several chipmunks and staid in camp the afternoon and worked them up, 11/2 m

29 June, 1897

Drove on about three miles and found a fine patch of grass, and camped, Made a station here, 3 mi.

30 June

Walked up the slope some two miles found a good locality for *Aphelontia* but no traces of them,

1 July,

Cloudy, all day, but no rain,

2 July,

Drove over to Robbins(?) Creek, 9 m by noon and camped, Passed along the edge of Big Meadows for two or three miles, Saw along Big Meadows a *Buteo calurus* (shot by), several *Melanerpes torquatus*, one *Chondestes* *g. strigatus*, several *Sturnella* and *Seiurus phaeurus*, In the afternoon I shot a ♂ *Picoides arcticus*, 2411

3 July,

Had a mink in a trap this morning, After skinning up, started on at

9-30, Passed along the edge of the Mountain Meadows, and up a narrow arm of the same. The slopes along this arm are covered with sage brush, and in the sage brush I saw several *Spermophiles*, of some of the short-tailed, gray species. Also saw a Sparrow-hawk, *Melanerpes torquatus* were common along the fences and in trees bordering the Meadows. It looks very much like Long Valley, here. I shot one of the *Spermophiles*, it proves to be beldingi? (perhaps townsendi)

4 July

Drove to Susanville. The divide was 5450 alt. Susan River is not as large as some creeks we have passed. 15 m 261

5 July

Packed skins, got the horses shod etc.

6 July, 1894

In the forenoon drove down Snom
River and camped for dinner at
a little slough. Several Arcoptes
acted as if they had nests near but
I did not find them, a pair of
medium sized Sandpipers passed
by, saw Contopus also,

During the forenoon I saw two
or three black-bellied Magpies
and ~~the~~ two Spermophilus (townsendi);
Saw three or four small Tamias and
fired at and missed one. They
were in sage brush in the open
valley. In the afternoon we crossed
over to Willow Creek, shot a
Tamias (lencurus?) and saw another.
Camped on a lava mesa and put
the horses down in the canon. 17m

7 July



Had three Brush-tailed Rats, in
my traps this morning. At some

Spring above Petto Valley saw two
flocks of Sage Grouse, and shot
four. Shot a Spermophilus chrypodium
in sage bush on a rocky hillside,
Saw two S. (townsendi?) Camped at
the springs, 7 m.

8-9 July

Did not move camp, Shot
two more Sage Grouse, This has
not been a good camp, caught
no small mammals,

10 July

Drove past Horse Lake and
over the divide north and camped
at a spring about half way down
the slope to Medicine Plains,
Ground Squirrels were abundant
at Horse Lake, Shot two Sage
Grouse there and an old cock on
the divide, Horse Lake is muddy
in color, Did not taste it, but the
cattle drink there I see, It does not
overflow now, and may not
have done so for years, 20 m

11-12 July

Did not move camp. Got several chipmunks here. Showery on the 11th. Fine feed here. Butterflies of several species are abundant, watering in the damp ground below the spring. Caught and saved 125;

13 July

Showery fore part of the afternoon. At 3-40 P.M. started on and

drove down into the Madeline Plain and made a dry camp. Had hoped to find some small mammals here, but I see no signs of any, - however I put out 25 cyclones to try. The Plain is adobe and the shower has made the surface very sticky. The mud rolled up on

The wheels so much that I had
to unbold the brake lever so
as to give the brake more room
to get away from the wheels,
Saw four Sage Grouse just
before making camp, There
is very little life on this Plain
so far. The sage brush is thick
but stunted, There is but
little grass, I hear several
Otocoris a. merrilli singing
their evening song, 5 m

14 July

Drove to the divide between the
Madeline Plain and South Fork
of Pitt River, Saw four Sage
Grouse on the Plain, ^{this morning} but no
Lepus, The road was sticky
in the morning, There seems
to be very little animal
life on the Plain, Got two
Sitomys a. sonoriensis in the traps
set last night, 18 m.

16 July

Drove to Likely, a little place
of one store, saloon, blacksmith
shop, hotel and stable, on South
Fork of Pitt River, alt. 4100

It did not seem as much as
1200 feet descent, but the aneroid
says so. Road was rocky. 10 m

17 July

Drove down South Fork about
10 miles and camped at a ditch
and corner of unfenced swet
land. Shot two Saw Grouse,
Lepus c. texensis are very
abundant. The river bottom is
a mile or so in width, and
is mostly marsh and tules.
No show for mammals. 10 m

Saw a family of Spizella, Saw 2 magpies

18 July.

Drove through Alturas, and

up the North Fork about 8 miles.
In the wet bottom land south of Alturas
I shot a pair of Grasshopper Sparrows.
North of Alturas I saw a number of
Habia melanocephala, and heard an
Icteria. Saw a Falco mexicanus
fly past. Saw several small flocks
of Gull fly over, apparently the
small variety of canadensis. Have
seen Bitterns, Black Terns, Jacksnipe,
one or more sp. of Sandpipers, a larger
sp. (flock of 5 flying, white bar on
primaries and secondaries, ~~Dowson~~ 18

19 July.

During the night I heard a bird
in the willows which may be the
Saw-whet Owl. The cry was new to
me. Yesterday Sceloporus were
abundant. Icthyophaga and
Agelaius (gubernator?) were seen but not
common. Drove past Davis Creek
and to within 4 miles of Willow
Ranch. Roads mostly good, 24 mi

24 July, 1894

Still camping at the Bonner place, Saturday I climbed to the summit of Sugarloaf Mt. Shot a Lagomys on a rock slide at north west end of the mountain. Yesterday I got a big porcupine in the rocks near the lake shore, and this morning I shot an ermine weasel in the same place. There are a number of Arctomys there but I don't seem to kill them outright and they get in their holes.

30 July.

Left Bonner at 7 A.M. and drove past the sawmill and up Lassen Creek and camped at a vacant house. There are some pocket gophers here but otherwise it does not seem a very good locality. Caught two small trout, 6 in.

3 Aug

alt. 6300

Drove across the Lassen Pass
and to Lake City in Surprise Valley.
Rained a little in the morning.
The roads were very rough
until we got into Fandome
Valley. The grade up the Pass
was good, and going down
was fair. Windy in afternoon.

Aug 4th.

Passed through Cedarville
and got a batch of mail.
~~Went~~ Windy again in the
afternoon. Camped at a
spring. Grass poor. Fed
off slowly.

Aug 6

Passed through Eagleville and
camped in the afternoon at a
spring near Lower Alkali Lake
and put the horses up on the
steep hillside, in bunch grass.
Days drive 16 miles.

7 Aug. 1894

Had a ♀ Perognathus in a trap this morning, the first I have taken in this part of the State. Drove through a low cañon out into another valley (Duck Flat?) and camped there in Nevada, 16 mi

8 Aug

Drove into Tuladad Cañon and camped for the rest of the day. Shot two Spermophilus (lincolnii?) in the morning. Days drive 7 miles

9 Aug

Drove over to Red Rock Creek. The divide was 6200 alt, almost as high as Lassen Pass. Threatened rain, 13 mi

10 Aug
Drove down into Madeline
Plain and camped, 5 m

11 Aug
Drove 15 miles,

12 Aug
Skinned all the forenoon and
made a short drive in the
afternoon, 4 m

13 Aug
Drove through Secret Valley and
to the hot springs near Honey
Lake, 21 m

14 Aug
Drove through Amadue at
noon, and into the lower
end of Long Valley. Wanted to
camp near Honey Lake to trap
a night but there was nothing
but poor salt grass and the
lake water which is very poor,
so we had to drive on. Saw
Sage Grouse, 25 m

15 Aug

Drove but a mile before we camped, as there was water and a little grass, and I wanted to try for Microdipodops and Dipodomys

16 Aug

1 m

I had out 68 traps last night but caught but two Sitomys, One cyclone trap had been sprung by a Dipodomys, and I saw more tracks in one other place, Saw several Crows in Long Valley, Drove to the east end of the Beckwourth Pass,

24 m.

17 Aug

Drove through the Beckwourth Pass into Sierra Valley, to its north east corner and camped on Last Chance Creek, The valley is large, covered with sage brush, except the lower part. The valley is but about 200 feet lower than the pass, which is about 5250

The branch of the narrow gauge railroad through the pass is not used, the iron being torn up at the road crossings. On the main line trains make three round trips a week,

8 m,

18 Aug,

170

Frost this morning,

20 Aug

Drove back to the sand ridge and made a dry camp to try for Dipodomys,

2 m

21 Aug

Had no Dipodomys but did catch one Microdipodops,

Drove into Nevada,

19 mi

22 Aug

Drove to Reno, 11 miles,

23 Aug

Packed skins and wrote letters

24 Aug

Drove to Steamboat Springs

12 m

25 Aug

Drove to a little ~~above~~ south of
Washoe, 5 mi.

26 Aug

Drove through Carson City.
Carson City seems to be in a
side arm of the main Carson
Valley. There is a flume bringing
wood to the divide between the
valley Reno is in and Carson Valley
when it is put on cars of the
Virginia and Truckee R. R.
(broad gauge) probably to take to
Virginia City. Just south of
Carson City is the end of another
V flume, where there are large
quantities of lumber and wood
piled. A switch of the V. & T.
runs to it. This would indicate
some activity yet in the Comstock
mines, 13 mi.

27 Aug.

Drove through Jacks Valley,
down into the main Carson
Valley, Through Genoa and
Sherman. The road passed
near the base of high mountains
~~at the right~~, with open valley
to the left most of the day.
The course was southerly, 24 m.

28 Aug 1894

Drove past Woodford, the Diamond
Saw mill and through Markleville
to the Hot Springs above Markleville
four miles. Heavy thunder shower
occurred as soon as we got
unhitched. Saw a flock of
Black-billed Magpies at the corral,
17 m

4 Sept.

Drove back to Woodfords and
camped to wait for mail, 11 m

5 Sept.

In P.M. Drove up West Fork to Hope Valley
Rather rough road 7 mi

10 Sept. 1894

Drove back into the cañon, heard
a Lagomys near camp, shot a
woodchuck, 3 m.

11 Sept.

Drove past Woodfords, through
Diamond Valley and down
the creek to East Fork of Carson
River, Below Diamond Valley
saw piñon trees and a
number of piñon jays. 16 m.

12 Sept.

Drove over to Antelope Valley
Fair road, Windy. 20 m.

13 Sept.

Drove up into the cañon 18 m
cold

14 Sept.

Laid over until noon, and drove
on, Toll road, 100, The road to
Sonora Pass seems very little
traveled, and is probably new,
Heavy frost in the morning, Ice
18 m.

15 Sept,

Drove through Bridgeport. Saw magpies in Bridgeport Valley. Have seen them in all the valleys for some time. The blacksmith in Bridgeport wanted \$4. to reset the shoes on my ² horses, but I concluded not to pay it though they need shoeing. Saw a mounted Wolverine in Bridgeport. It was dark on the middle of the back and on belly, and pale tawny on the sides; perhaps it had faded a little. They were said to be common in the valley in dead of winter, there or four years ago. 15m

16 Sept

Drove to Mono Lake. Took the "short cut", which proved a very poor road, but we saved 15.00 toll by it. The divide north of Mono Lake was 8500 alt.

17 Sept

16m

Got the horses shod in A.M., and drove on P.M. Sandy road 10m

18 Sept.

Very sandy roads most of the day. Crossed Rush Creek in the morning, and the North Fork of Owen River in the afternoon. Made a dry camp, with very little grass, in the pines. Just after noon we passed some old craters, that seem to have been flow holes for gas and volcanic sands. One was some 300 yards across and 100 to 200 feet deep, with mostly sloping sides, from the wearing down of the walls, but in a few places the walls were perpendicular. The material ejected seems to have been pumice stone, obsidian and other melted rocks, ground up into sand and gravel, and blown into the air. Near these vents and northward the deposit is sand, but southward it was

gravelly, with a large amount of small fragments of pumice stones. This is spread over the country for miles. Northeast of these vents two or three miles are low mountains covered mostly with fine sand apparently, probably from local vents. These are known locally as the "Ash Hills".

I saw no lava until reaching Owen River. At the south end of Mono Valley, north of Rush Creek, are several lateral moraines one coming from Mono Pass.

In two or three cases these look like the double furrow made by a single channeled flow, being two parallel ridges sloping down from the mountain and ending out in the valley. The old beach marks extending around the valley do not cross these, showing that the beach marks are pre-glacial, though probably not much more ancient.

19 Sept, 1894

Drove over to the sawmill
below the old Mammoth Mine,
Found sheep in there and no
grass left so came on down to
the Casa Diablo hot springs, 13
13 mi

22 Sept.

Left the Springs at noon, Drove
to the lower end of Long Valley
shot a Sage Grouse
23 Sept. 12 mi

Had bad roads most of the
day, The long hill down into
Round Valley was very rocky.
Camped at the lower end of
Round Valley, Saw valley quail
in the valley. 21 mi

24 Sept.

Drove through Bishop, 15 mi

25 Sept.

Drove through Big Pine 303 14 mi

26 Sept.

~~Drove through Independence and
Long Pine, North wind in P.M. 21 mi~~

27 Sept,

Strong north wind during the night,
Drove to Olancho, 20 mi

28 Sept,

~~High wind from south west,~~

~~29 Sept,~~

26 Sept

Drove to Independence 22 mi

27 Sept,

Drove through Independence and
Lone Pine, Camped at the spring
at the head of Owen Lake, North
wind in afternoon, 21 mi

28 Sept,

Strong north wind during the
night. Drove to Olancho 20 mi

29 Sept,

High wind from south west,

30 Sept,

High wind most of the day, Snow
on the mountains, slight rain in
the night,

3 Oct. 1844

Left Olancha in the morning
and drove to Hayway Meadows
and stopped.

9 mi

4 Oct.

Drove past Little Lake to near
Sand Creek, Little Lake is very
low,

26 mi

5 Oct.

Drove to a spring in the east
side of Walkers Pass, There are
many dead cattle at all the
springs.

17 mi

6 Oct.

Drove over Walkers Pass to a small
stream about two miles north west of
the summit. The aneroid read
5800 at the summit and 4500 at
the stream spoken of.

7 mi

7 Oct.

Laid over.

8 Oct.

Drove past Cambrake
Oryx & Weldon, Oryx was

2850 alt. Good roads much
of the day.

24 mi

9 Oct.

Drove to Havilah, Fine walk in
the forenoon, but one long steep hill
in the afternoon, a rise of 1100 feet,

16 mi

10 Oct.

Drove to Walkers Basin, hilly
road, At 11 o'clock stopped to
try to get a shot at a flock of
Bald Vultures that were feeding
on the carcass of a horse, but
they wouldn't let me get near
enough, I counted 26 as they
were from ^{about} the carcass, I put
out 9 steel traps around the carcass
and waited until 4 o'clock but
none came in sight.

12 mi

11 Oct.

Passed through Caliente, The
grade down the mountain
was good, but long, descent about
2000 feet in 2 or 3 miles, Caliente is
nothing of a place,

17 mi

12 Oct,

Drove down into the south end
of the San Joaquin Valley 15 mi

13 Oct,

Drove to the Tison ranch house, 10 mi

14 Oct,

Drove past Rose Station and up
into the canon. 17 mi

15 Oct,

Drove past Old Ft. Tison and
Gorman Station to Crane Lake,

16 Oct,

15 mi

Drove into Antelope Valley, 20 mi

17 Oct,

20 mi

Drove through Lancaster. Had
fine roads all day, 26 mi

18 Oct,

Windy and cold,

14 mi

19 Oct,

Started late,

11 mi

20 Oct,

Drove to Swarthout Creek, no
water until we reached

Heather place, The horses had
a hard day, rocky road and
up hill toward the east, and
no water from 2 P. M. yesterday
until dark tonight, Muscat
Creek, where we expected to water,
was dry, fortunately the day
was cool

17 m

21 Oct.

Skinned mammals in the
forenoon, and drove down the
Swarthout Cañon in the P. M.
The road down was good and
but moderately steep, a fall-off
from 6200 to about 2800 in
about ten miles, pretty even grade
steepest at the top,

14 m

22 Oct.

Drove into San Bernardino
and stopped with Mr. Wright,

17 m

23 Oct

Laid over,

24 Oct.

Drove to Riverside,

11 m

27 Oct.

Rode over to San Bernardino on
the motor,

28 Oct

Laid up with the rheumatism

29 Oct,

Went back to Riverside,

30

Drove down into Riverside and
visited the rest of the day. 4 m

31 Oct,

Drove to Imperial,

24 m

1 Nov,

Drove to Elsinore Lake and in
the afternoon skinned animals, 12 m

2 Nov,

Drove to Imperial, Had
the rheumatism pretty bad, 22 m

3 Nov,

Drove to the Dripping Spring,
4 Nov 12 m

Drove to Dead Man's Hole, on
Warners Ranch. 24 m

5 Nov.

Drove home, Have had the
rheumatism bad for several
days, so I had to make a bed
in the wagon and lie on it
and let Lizzie drive, 20 mi

*pages 60
through 76
are blank*

Check # for 2205 in
payment of authorization of
Sept. 29th,

Page 466 ²⁵ "On entering the
 County, over the Diamond Mt
 Divide, which has an altitude
 of 6425 ft, and is 8 miles south-
 west of Susanville, the road ~~ascends~~
 ascends from Honey Lake Valley
 1200 ft in a distance of 4 miles.
 the ridge is heavily timbered on
 both sides of the slope. The
 divide at this point is narrow
 and the road commences an
 immediate descent into
 Lights Canon, following
 Lights Creek down the whole
 canon until it terminates in
 at the head of the north arm
 of Indian Valley.

To the east of where the road
 crosses the divide, in close
 proximity is the Diamond
 Peak 7667 alt. Two ridges
 of trap, running off to the S. the
 about 100 yards behind form the
 walls of the canon. Descent 2000 ft in
 12 mi.

Leaving Indian Valley by way of the Quincy road, down the east branch of the North Fork of Fratten River, the canon for quite a distance is only wide enough for the river and the road, which has been cut out of the trap rock that crosses the canon at its head and continues for some distance. Six miles down the river ~~below~~ ^{beyond} the Shovelby bridge, a sharp turn transfers the road from the East Branch canon into Spanish Creek canon which is a tributary of the former. ~~That with passes~~ Some cold springs along the road. Continuing up the creek the canon widens out and forms American Valley 11 miles \times 1 or 2. In this valley is Quincy. alt. 3416 ft.

Oakland to Mt. St. Helena	86
Floyds Landing, Clear Lake	118 $\frac{3}{4}$
To Sulphur Springs & back to same ¹² camp	131
Scotts Valley	165 $\frac{1}{2}$
Ukiah	191 $\frac{1}{2}$
Eel River Bridge ^{includes 2 trips to town / 0 mi}	269
Ukiah (back,)	331 $\frac{1}{2}$

Corrected

Oakland to ^{Mt} St Helena camp	87
Landing, Clear Lake	120
Forks of road below Blue Lakes	160
Ukiah,	180
Eel River Bridge	250
Back to Ukiah	312

Home to Oakland	705
Oakland to Ukiah, return	312
Ukiah to Susanville	265
Susanville to Lake City	150
Lake City to Reno	1432
Reno to Elmer	202
Elmer to Elmer	421
Elmer to home	433
	2488

1014

128

1752

